

**CLEAN VERSION OF AMENDED CLAIMS CONTAINED IN APPLICANT'S  
AMENDMENT AND REPLY TO SEPTEMBER 14, 2005 OFFICE ACTION  
AS REQUIRED BY 37 C.F.R.. 1.121 (c)(1)(i)**

1. A method of extracting lipid associated sialoprotein from the cerebrospinal fluid of human subjects having or suspected of having cancer and determining the amount of lipid associated sialoprotein in a sample of such fluid which comprises the following steps:

a) adding to the sample a mixture of a chlorinated lower alkyl hydrocarbon and a lower alkyl alcohol

b) mixing the resulting admixture for a suitable period of time to dissolve lipid-bound sialic acid in the sample in the chlorinated hydrocarbon/alcohol mixture;

c) centrifuging the mixture at about 6000 rpm to form a substantially clear upper phase;

d) separately recovering from the clear upper phase so formed a predetermined volume of the upper phase;

e) adding to the predetermined volume of the upper phase an amount of a mixture of an aqueous protein-precipitating agent without any absorbing material, the amount of mixture being effective to cause precipitation of the lipid associated sialoprotein;

f) vortexing the resulting admixture;

g) centrifuging and recovering the resulting precipitate;

h) washing the precipitate in a saline solution;

- i) centrifuging the resulting mixture;
- j) dissolving the precipitate in water;
- k) adding to the solution a hydrolysis agent;
- l) heating the resulting admixture;
- m) determining the amount of lipid associated sialoprotein present in the solution and thereby the amount present in the fluid sample.

17. A method of diagnosing cancer in a human subject which comprises determining the amount of lipid associated sialoprotein in a sample of the subject's cerebrospinal fluid according to the method of claim 1 and comparing the amount so determined with amounts previously obtained for subjects known to have cancer by use of the method of claim 1.

18. A method of diagnosing cancer in a human subject which comprises determining at regular time intervals the amount of lipid associated sialoprotein in a sample of the subject's cerebrospinal fluid according to the method of claim 1 and comparing the amounts so determined with amounts previously obtained for the subject by use of the method of claim 1.

**EXPRESS MAIL**

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**Date of Deposit: March 14, 2006**

I hereby certify that the **AMENDMENT AND REPLY TO SEPTEMBER 14, 2005 OFFICE ACTION** with respect to the application described below together with the required fee are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and is addressed to the U.S. Department of Commerce, Patent and Trademark Office, Organization - TC 1600, Bldg./Room CM1, Washington, DC 20231.

BY: 

Paul L. Bollo  
Attorney for the Applicant  
Reg. No. 28,694  
57 North Street  
Suite 210  
Danbury, CT 06810  
(203-798-8360)

**Title: METHOD FOR DETERMINING LIPID ASSOCIATED SIALOPROTEIN  
IN BODY FLUIDS**

**Inventor: Nonda Katopodis**

**Attorney Docket No.: NK-3**

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**Art Unit 1642**